

Helena-West Helena School District

Year at a Glance

Subject: Math

Grade: 5<sup>th</sup>

Unit or Content	TLI Module	SLE Frameworks	Prerequisites	Texts	Essential Question	Mathematical Vocabulary	Mathematical Practice
<p>1. Number System</p> <p>A. Multiplying and dividing whole numbers</p>	<p>1</p> <p>1</p> <p>1</p>	<p>Multiplying whole numbers</p> <p>5. NBT.5</p> <p>5.NBT.2(A,B)</p> <p>5.NBT.6</p>	<ul style="list-style-type: none"> <li>• multiplying whole numbers</li> <li>• estimate products</li> <li>• estimate quotients</li> </ul>	<p>113-142</p> <p>93-110</p> <p>157-238</p>	<p>What strategies can be used to multiply whole numbers?</p> <p>What strategies can be used to divide whole numbers?</p>	<p>Distributive – property</p> <p>Standard – algorithm</p> <p>Factors</p> <p>Product</p> <p>Partial product</p> <p>Algorithm</p> <p>Exponents</p> <p>Powers of 10</p> <p>Digit</p> <p>Decimal</p> <p>Rectangular array</p> <p>Area Model</p> <p>Array</p> <p>Compatible - numbers</p> <p>Base</p> <p>Power</p> <p>Squared</p> <p>Cubed.</p> <p>Prime-factorization</p>	<p>1. Make sense of problems and persevere in solving them</p> <p>2. Reason abstractly and quantitatively</p> <p>3. Construct viable arguments and critique the reasoning of others</p> <p>4. Model with mathematics</p> <p>5. Use appropriate tools strategically</p> <p>6. Attend to precision</p> <p>7. Look for and make use of structure.</p>

B. Multiplying fractions	1 2 1 2	5.NF.5 (A) 5.NF.4 a,b 5.NF.5 (B) 5.NF.6		751-756  707-744  563-568  745-756	How are factors and multiples helpful in solving problems?  What strategies can be used to multiply fractions?	Product Factor Model Area model Area Tiling Fraction less than one Fraction greater than one Improper - fraction Mixed - number Visual fraction models Equation scaling	1. Make sense of problems and persevere in solving them  2. Reason abstractly and quantitatively  3. Construct viable arguments and critique the reasoning of others  4. Model with mathematics  5. Use appropriate tools strategically  6. Attend to precision  7. Look for and make use of structure.
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<p>C. Dividing fractions</p>	<p>1 1</p>	<p>5.NF.3 A,B 5.NF.7 (A,B,C)</p>		<p>551-556  759-782</p>	<p>How are factors and multiples helpful in solving problems?  What strategies can be used to divide fractions?</p>	<p>Numerator Denominator Division Quotient Remainder Unit Fractions Whole – numbers Divide Strategies Fraction</p>	<p>1. Make sense of problems and persevere in solving them  2. Reason abstractly and quantitatively  3. Construct viable arguments and critique the reasoning of others  4. Model with mathematics  5. Use appropriate tools strategically  6. Attend to precision  7. Look for and make use of structure.</p>
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D. Decimals	1 1 1 1 1	5.NBT.3 a(A,B), b 5.NBT.1 (A)(B) 5.NBT.4  5.NBT.7B 5.NBT.7A		23-66  11-16  303-320  309-366	How does the position of a digit in a number relate to its value?  How can I use place value and properties to add and subtract decimals?	Decimal Decimal point Word Form/notation Base ten - numerals Place Value Standard form/notation Digit Expanded form Greater than Less than Tenth Hundredths Thousandth Base Ten Round Estimation Place value - names Sum Difference Decimal Place Product Quotient Place value-chart Period Equivalent decimals	1. Make sense of problems and persevere in solving them  2. Reason abstractly and quantitatively  3. Construct viable arguments and critique the reasoning of others  4. Model with mathematics  5. Use appropriate tools strategically  6. Attend to precision  7. Look for and make use of structure.
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<p>E. Order of operations</p>	<p>2 2 3</p>	<p>5.NF.1 (a,b) 5.NF.2 5. AO.1 (A,B)</p>		<p>631-662  619-694  481-504</p>	<p>How can equivalent fractions help me add and subtract fractions?  How are patterns used to solve problems?</p>	<p>Mixed – numbers Equivalent - fractions Common - denominators Improper fractions Numerator Denominator Estimation Justify Reasonableness Benchmark - fractions Unlike - denominators Numerical-expression Evaluate Order of operations Verbal – expressions Parentheses Brackets Braces Sum Difference Product Quotient Like fractions Unlike - Fractions</p>	<p>1. Make sense of problems and persevere in solving them  2. Reason abstractly and quantitatively  3. Construct viable arguments and critique the reasoning of others  4. Model with mathematics  5. Use appropriate tools strategically  6. Attend to precision  7. Look for and make use of structure.</p>
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2. Translating expressions	1 5	5.OA.2 5.OA.3 A,B,C		493-498  507-536	How are patterns used to solve problems?	Numerical-expression Verbal - expression Sum Difference Product Quotient sequence term Numerical – patterns Input/output table Relationship	<ol style="list-style-type: none"> <li>1. Make sense of problems and persevere in solving them</li> <li>2. Reason abstractly and quantitatively</li> <li>3. Construct viable arguments and critique the reasoning of others</li> <li>4. Model with mathematics</li> <li>5. Use appropriate tools strategically</li> <li>6. Attend to precision</li> <li>7. Look for and make use of structure.</li> </ol>
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3. Conversions	5	5.MD.1		801-882	How can I use measurement conversions to solve real-world problems?	Customary – units Metric units Convert Conversion Length Inch Customary – system Foot Yard Mile Weight Ounces Pounds Ton Capacity Cups Pints Quarts Gallons Fluid Ounce Centimeter millimeter Meter Kilometer mass Gram Kilogram Milligram Liter Milliliter	1. Make sense of problems and persevere in solving them  2. Reason abstractly and quantitatively  3. Construct viable arguments and critique the reasoning of others  4. Model with mathematics  5. Use appropriate tools strategically  6. Attend to precision  7. Look for and make use of structure.
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4. Shapes and volume	1 4 2  2 2  2 2	5.G.3 5.G.4 5.MD.3 b Explain difference 5.MD.3 a 5.MD.3 b Explain strategies 5.MD.4 5.MD.5 a,b,c		903-934  949-954  973-978  955-978	How does geometry help me solve problems in everyday life?	Polygons Attributes Category Subcategory Properties Two-dimensional-figures Trapezoid Quadrilateral Polygon Rhombus Parallelogram Hierarchy Volume Unit Cube Side lengths Three-dimensional – figures- Rectangular - prism Layers Solid figure Convert Net Right – rectangular-prism Formula	1. Make sense of problems and persevere in solving them  2. Reason abstractly and quantitatively  3. Construct viable arguments and critique the reasoning of others  4. Model with mathematics  5. Use appropriate tools strategically  6. Attend to precision  7. Look for and make use of structure.
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						Length Width Base Area of base Hexagon Pentagon Octagon Congruent angles Congruent sides Regular polygon Equilateral - triangle Isosceles - triangle Scalene triangle Acute triangle Obtuse triangle Right triangle Rectangle Square Composite - figure	
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5. Line plots and coordinate system	4 4 4	5.MD.2 5.G.1 5.G.2		845-850  525-536  519-536	How can I use measurement conversions to solve real-world problems?  How are patterns used to solve problems?	Line plot Data Coordinate Coordinate – plane Y-axis X-axis Origin Intersect Vertical Horizontal Ordered Pair 1 <sup>st</sup> Quadrant Axes Fair share X-coordinate Y-coordinate	1. Make sense of problems and persevere in solving them  2. Reason abstractly and quantitatively  3. Construct viable arguments and critique the reasoning of others  4. Model with mathematics  5. Use appropriate tools strategically  6. Attend to precision  7. Look for and make use of structure.
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